

[illegible]

E. coli MS	EMTKWFNTNYHYMVPEFVKGQQFKLTWTQLLDEVDEALALGHKVKPVLLGPVTLWLKGKV	180
yeast MS	EMVKWFDNSYHYVRPTFSKTTQFKLNGQKPVDEFLEAKELGIHTRPVLLGPVSYLFLGKA	
tobacco MS	EMTKWXDNTNYHFIVPELGPDVNFYSYASHKAVDEYKEAKGLGVDTPVVLIGPVSYLLLSKP	
C. roseus MS	EMTKWFDNTNYHYIVPELGPVNFYSYASHKAVNEYKEAKELGVDTPVVLGVPVTFLLLSKP	
corn MS/partial	.....	
soy MS/partial	.....	
E. coli MS	.KGEQ...FDRLSLLNDILPVYQQVLAELAKRGIEWVQIDEPALVLELPQAWLDAYKPAYD	240
yeast MS	DKDSLDLEPL.SLLEQLPLYTEILSKLASAGATEVQIDEPVLVLDLPANAQAAIKKAYT	
tobacco MS	AKGVEKSFPLLSLLDKVLPIYKEVIAELKAAGASWIQFDEPTLVLDLQAHQLEAFTKAYA	
C. roseus MS	AKGVEKTFPLLSLLDKILPVYKEVIGELKAAGASWIQFDEPTLVLDLLESHQLEAFTKAYS	
corn MS/partial	.....	
soy MS/partial	.....	

[illegible]

241 ALQQV... KLLTTYFEGVTPN... LDTITALPVQGLHVDLVHGKDDVAELHKRLPSD 300  
YFGEQSNLPKITLATYFGTVVPN... LDAIKGLPVAALHVDLVRAPEQFDEVVAAIGNK  
ELESSGLNVLTEYFADVPAAEFKTLTALKG.. VTAFGFDLVRGAQTLDLIKGGFPSP  
ELESTLGLNVIVETYPADIPAETYKILTALKG.. VTGFGFDLVRGAKTLDLIKGGFPSP  
.....  
.....

301 WLLSAGLINGRNVWRADLTEKYAIK...DIVGKRDWLWASSCSLLHSPIDLVSVETRLDA 360  
QTLVGIVDGRNIWKNDFFKSSAIVNKAIEKLGADRVVATSSSLLHTPVDLNNETKLDA  
KYLFAGVVDGRNIWANDLAASNLQLQSLGIVGKDKLVVSTSCSLLHTAVDLVNETKLDD  
KYLFAGVVDGRNIWANDLAASLTLQSLGIVGKDKLVVSTSCSLLHTAVDLVNEPKLDD  
.....  
.....

361 EVKSWFAFALQKCHELALLRDALNSGDTAA. LAEWSAPIQARRHSTRVHNPAVEKRLAAI 420  
EIKGFFSFATQKLDEVVITKNVSGQDVAAALEANAKSVESRGKSKFIHDAAVKRRRVASI  
EIKSWLAFAAQKVVEVNALAKALAXHKDEAFFSANATAQASRKSSPRVTNEAVQKAAAAL  
EIKSWLAFAAQKVVEVNALAKALAGEKDEAFFSNAQAQASRKSSPRVTNQAVQKAAAAL  
.....  
..... FAAQKVVEVNALAKALSGQKDEVFFSANAALASRKSSPRVINEAVOKAAAAL

421  
TAQDSQRANVYEVRAEAQARARFKLPWPPTTTIGSFPPQTTEIRTLRLDFKKGNLDANNYRT  
480  
DEKMSTRAAPFEQRLPEQQKVFNLPFPPTTTIGSFPPQTKDIRINRNKFNKGTSAAEEYEK  
KGS DHRRATNVSSRLDAQQKKLNL PVL PTTTIGSFPPQTVELRRVRREYKAKKISEEEYVK  
RGS DHRRATTVSARLDAQQKKLNL PVL PTTTIGSFPPQTVELRRVRREYKAKKISEDDYVK  
.....  
KGS DHRRATNV SARLDAQQKKLNL SVLPPTTTIGSFPPQATDLRRVBPFEKANKYICSEFWYK

# FIGURE 1 CONTINUED

481	E. coli MS	GIAEHKQAI	VEQERLGLDVLVHGEAERN	DMVEYFGEHL	DGFVFTQNGWVQSYGSR	CVKP	540
	yeast MS	FINSEIEKVIR	FQEEIGLDVLVHGEPE	RNDMVQYFGEQ	INGYAF	TVNGWVQSYGSR	VVRP
	tobacco MS	AIKAEIKKV	VDLQEELDIDVLVHGE	PERNDMVEYFGEQ	LSGFA	TANGWVQSYGSR	CVKP
	C. roseus MS	AIKEEISKV	VVKLQEELDIDVLVHGE	PERNDMVEYFGEQ	LSGFA	TANGWVQSYGSR	CVKP
	corn MS/partial	AIMEXISKX	VRIQEELDIDVVHGE	PERXDXXYFGE	XL	SAFATA	TGWXXSYGSR
	soy MS/partial	SIKEEIRKV	VELQEELDIDVLVHGE	PERNDMVEYFGEQ	LSGFA	TVNGWVQSYGSR	CVKP
541	E. coli MS	PIVIGDISR	PAPITVEWAKYAQSL	TDKPVK	GMLTGPVTILCWS	FPREDVSRETIAKQ	IAL
	yeast MS	PIIVGDL	SRPKAMSVKESVYAQ	SITSKPVK	GMLTGPITCLRWS	FPRDDVDQKTQAMQ	LAL
	tobacco MS	PIIYGDV	SRPNPMTVFWSKTAQ	SMTKRPMK	GMLTGPVTILNWS	FVRNDQPRXETCYQ	IA
	C. roseus MS	PIIYGDV	SRPNPMTVFWWSQ	TAQSM	TKRPMK	GMLTGPVTILNWS	FVRNDQPRFETCYQ
	corn MS/partial	PIIYGDV	SRPKPMTVFWSSLAQ	SFTKRPMK	GMLTGPVTILNWX	FVRNDQPRSETTYQ	IAL
	soy MS/partial	PIIYGDV	SRPKPMTVFWSSLAQ	SFTKRPMK	GMLTGPVTILNWX	FVRNDQPRSETTYQ	IAL
601	E. coli MS	ACVMKW	PIWKPLELASSRL	TNRRRLRQGL	PLRRS.DWDAYLQW	GEAFRINA	AAVAKDDTQI
	yeast MS	ALRDEV	NDLEAAGIKVIQVDE	PALREGLPL	REGTERSA	YTTWAAEAFR	VATSGVANKTQI
	tobacco MS	XIKDE	VEDLEKAXITVIQIDE	AALREGLPL	RKA.EHAFYLNW	AVHSFRITN	VGIGDTTQI
	C. roseus MS	AIKDE	VEDLEKAGINVIQIDE	AALREGLPL	RKA.EHAFYLDW	AVHSFRITN	PLPLQDTTQI
	corn MS/partial	AIKDE	VEDLEKAGITVIQIDE	AALREGLPL	XKS.EQAHYLDW	AVHAFRITN	VGVDTTQI
	soy MS/partial	AIKDE	VEDLEKAGITVIQIDE	AALREGLPL	XKS.EQAHYLDW	AVHAFRITN	VGVDTTQI
661	E. coli MS	HTHMCY	CEFNDIMDSIAAL	DRDVITIE.TSRSD	MELLESFEE.FDYP	NEIGPGVYDIHSP	720
	yeast MS	HSHFCY	SDLDP..NHIKAL	DADVVSIEFSK	KDDANYIAEFKN...Y	PNHIGLGLFDI	HSP
	tobacco MS	HTHMCY	SNFNDIIHSIID	MDADVITIE.NSR	SDEKLLSVF	REGVKYGAGIGPGVYDIHSP	
	C. roseus MS	HTHMCY	SNFNDIIHSIID	MDADVITIE.NSR	SSEKLLSVF	REGVKYGAGIGPGVYDIHSP	
	corn MS/partial	HTHMCY	SNFNDIIHSIID	MDADVITIE.NSR	SSEKLLSVF	REGVKYGAGIGPGVYDIHSP	
	soy MS/partial	HTHMCY	SNFNDIIHSIID	MDADVITIE.NSR	SSEKLLSVF	REGVKYGAGIGPGVYDIHSP	

$$\frac{d}{dt} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -x + yz \\ -y + xz \\ -z + xy \end{pmatrix}$$
[illegible]

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

```

*****  *  **  ***  ****  *****  **  ***  ***  *****  *  *****
VPELGPSTKFTYASHKAVSEYKEAKALGIDTVPVLVGPVSYLLSKPAKGVEKSFLLSL
VPELGPDVNFTXASQKAVDEYKEAKALGVDTPVLVGPVPTYLLSKPAKGVEKSFLLSL
VPELGPDVNFSYASHKAVDEYKEAKGLGVDTPVLIGPVSYLLSKPAKGVEKSFLLSL
VPEL-----
-----
VPELGPEVNFYSYASHKAVNEYKEAKELGVDTPVLVGPVTFLLSKPAKGVEKTFPLLSL
121

```

[illegible]

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11







[illegible]

\* \*\* \*\* \*\* \*\* \*\*  
VEDTNILWVNPD CGLKTRKYTEVKPALTNMVSATKLIR TQLASAK  
VLEKNILWVNPD CGLKTRKYTEVKPPSQNMVAAKLI RYELA--K  
VLDTNILWVNPD CGLKTRKYAEVKPALENMVSAAKAI RTQLASSK  
-----  
-----  
VLDTNILWVNPD CGLKTRKYAEVKPALENMVSAAKLI RTQLASAK  
721

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11